PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PCT-0403			FOR FURTHER ACTION See Form PCI		See Form PCT/IPEA/416				
International application No.			International filing date	tional filing date (day/month/year) Priority date (day/month/year)					
PCT/JP2004/011458			10.08.2004		11.08.2003				
			onal classification and IF	PC					
International Patent Classification (IPC) or national classification and IPC A23L3/36, F25D11/02									
Applicant YUGENGAISHA SUN WORLD KAWAMURA									
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 									
	REPORT consists	-		sheets, including	this cover sheet.				
3. This	report is also accor	npanied by A	NNEXES, comprising:						
a.	(sent to the d	pplicant and	to the International Burn	eau) a total of	sheets, as follows:				
i	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
b.	(sent to the l	International	Bureau only) a total of (i	indicate type and number	r of electronic carrier(s))				
					, containing a sequence listing and/or tables				
	related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4. This	report contains ind	ications relati	ing to the following item	s:					
	Box No. I	Basis of the	e report						
	Box No. II	Priority							
	Box No. III Non-establishment			regard to novelty, invent	ive step and industrial applicability				
	Box No. IV	Lack of uni	ity of invention						
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
	Box No. VI Certain documents cited								
	Box No. VII	Certain def	ects in the international a	application					
	Box No. VIII Certain observations on the international application								
Date of submission of the demand				Date of completion of th	is report				
Name and mailing address of the IPEA/JP				Authorized officer					
			5						
Facsimile No.				Telephone No.					

Translation

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/011458

Box	No. I		Basis of the report	-				
1.			to the language, this report is based on the internation der this item.	al application in the language in v	which it was filed, unless otherwise			
			eport is based on translations from the original language is the language of a translation furnished for the purpo	-				
			international search (Rule 12.3 and 23.1(b))					
			publication of the international application (Rule 12.4)					
		Ш	international preliminary examination (Rule 55.2 and/	or 55.3)				
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annex this report): the international application as originally filed/furnished							
	M	the de	escription:					
		pages	1-18		as originally filed/furnished			
		pages	*	received by this Authority on				
		pages	*	received by this Authority on				
	\boxtimes	the cla	aims:					
		nos.	2-4,6-11		as originally filed/furnished			
		nos.*		as amended (together	with any statement) under Article 19			
		nos.*	1,5	received by this Authority on	14.01.2005			
		nos.*		received by this Authority on				
	\boxtimes	the dr	awings:					
		sheets	5 1-4		as originally filed/furnished			
		sheets						
		sheets		•				
	П	2 5841	uence listing and/or any related table(s) – see Supplem	•				
	\Box	•		chair Box Relating to sequence B				
3.	Ш	The a	mendments have resulted in the cancellation of:					
		\exists	the description, pages					
		\exists	the claims, nos.					
			the drawings, sheets/figs					
		님	the sequence listing (specify):					
		ш	any table(s) related to sequence listing (specify):					
4.			report has been established as if (some of) the amend have been considered to go beyond the disclosure as fi					
		Щ	the description, pages					
		\sqcup	the claims, nos.	<u> </u>				
		\sqcup	the drawings, sheets/figs					
			the sequence listing (specify):					
			any table(s) related to sequence listing (specify):					
*	If ite	em 4 ap	plies, some or all of those sheets may be marked "sup	erseded."				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/011458

Box		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement			_		
	Novelty (N)	Claims	2, 7	YES		
		Claims	1, 3-6, 8-11	NO		
Inventive step (IS)		S) Claims		YES		
		Claims	1-11	NO		
	Industrial applicability (IA)		1-11	YES		
		Claims		_ NO		

2. Citations and explanations (Rule 70.7)

Document 1: JP 62-297677 A (Matsushita Electric Industrial Co., Ltd.), 24 February 1987

Document 1 discloses a fridge-freezer having shelves on which food is placed provided therein, wherein said food shelves are used as electrodes to form a high-voltage electric field, the external casing and some of the shelves act as the earth potential, and the remaining food shelves act as a positive or negative potential, thereby making it possible to apply to the food a DC current that is of a higher voltage than the high-voltage power source; and a food refrigeration and food preservation method that uses said refrigerator (the embodiments).

Moreover, document 1 indicates that the effect of the magnetic field becomes more effective if an AC current is used alongside a DC current.

The invention set forth in claims 1, 3-6 and 8-11 lacks novelty over document 1.

The fridge-freezer disclosed in document 1 does not appear to apply a positive and a negative potential simultaneously to the shelves when applying a DC current

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

and, therefore, with a negative potential on the food shelves, a minus DC current is applied to the food.

Moreover, document 1 is considered to disclose the feature wherein an AC current is applied with a DC current in the fridge-freezer.

Consequently, it is not possible to distinguish between the invention set forth in claims 1, 3, 4-6 and 8-11 and the invention disclosed in document 1.

The invention set forth in claims 1, 3-6 and 8-11 does not involve an inventive step in the light of document 1.

A person skilled in the art would be able to configure the fridge-freezer disclosed in document 1 so that an AC current can be used alongside a DC current, as suggested in document 1.

The effects exhibited by applying such a feature would not go beyond the effects expected by a person skilled in the art.

The invention set forth in claim 2 and 7 lacks novelty over document 1.

A person skilled in the art could also conceive of using only a DC current or an AC current instead of using DC and AC together.

The effects of applying this feature are of no particular significance.